# 2-Player Pong Game with 

Arduino Uno
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## TOOLS:

- Arduino Uno (1)
- Breadboard (1)
- Jumper Wire (20)
- PCD8544 LCD screen (1)

Nokia5110 screen

- Potentiometer, $5 \mathrm{k} \Omega$ (2)


## SUMMARY

Classical Pong game implemented on an Arduino Uno using a PCD8544 LCD screen which is better known as the Nokia 5110 screen.

Player bars are controlled by a potentiometer for each player. If you want the bar to go left, just turn the potentiometer left.

Step 1 - 2-Player Pong Game with Arduino Uno


- Connect the Arduino Uno, PCD8544 LCD screen and 2 potentiomaters as shown in the Fritzing diagram.


## Step 2



- Download Arduino software from http://arduino.cc/en/Main/Software


## Step 3



- Download the Arduino sketch (Pong.ino file) from https://github.com/monur/Arduino-Uno-PCD...


## Step 4



- Open Pong.ino sketch with Arduino IDE software
- Connect the Arduino Uno to your computer with a USB cable.
- In the Arduino IDE software menu, select Tools->Board->Arduino Uno
- In the Arduino IDE menu, select File->Upload or use the shortcut key combination Ctrl-U
- The game starts in the LCD screen. You can control the bars using the potentiometers.

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